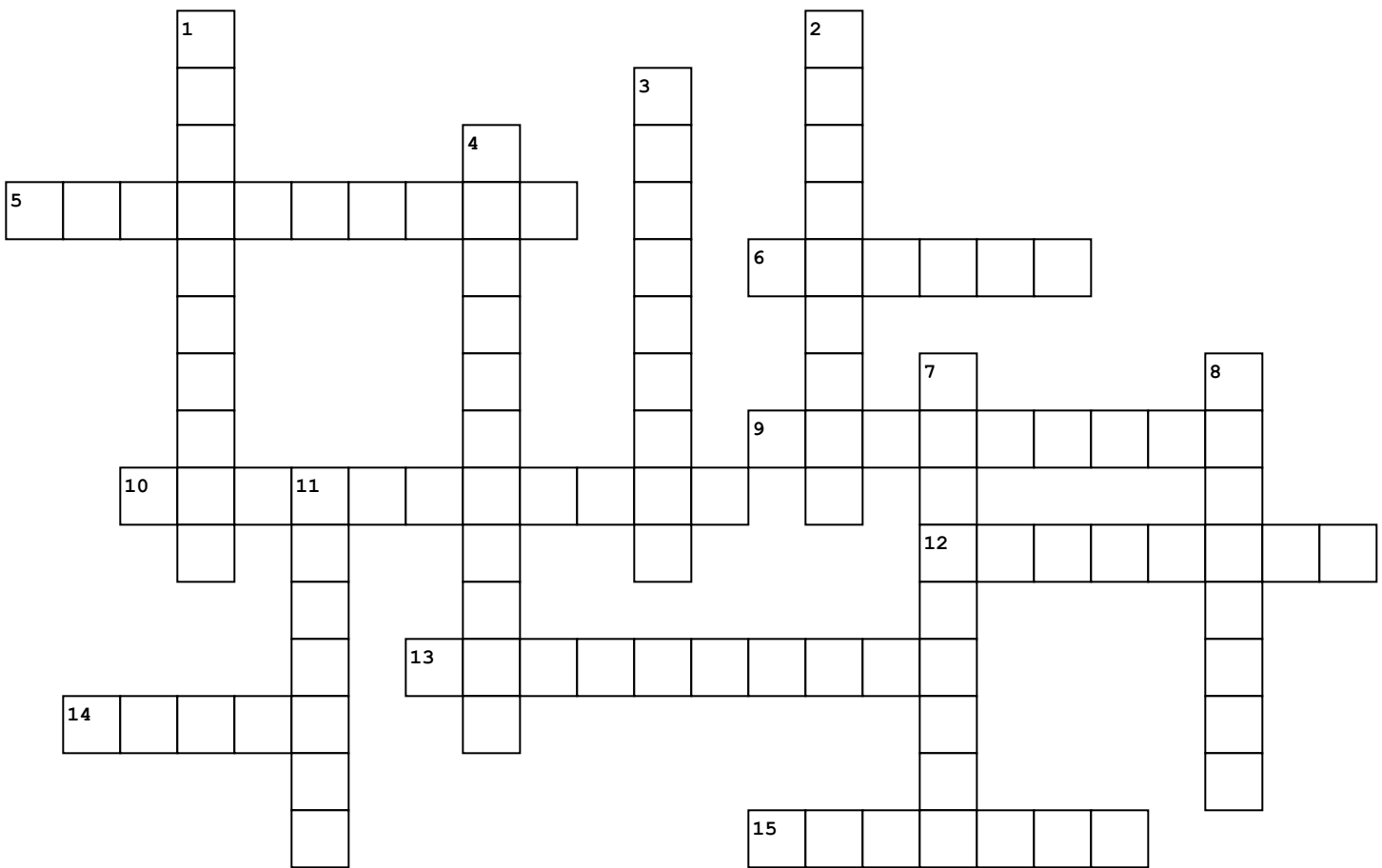


unit-1 diode



Across

5. / this circuit produces an output of 4 times of the peak input voltage
6. / the ac component present in the output of a rectifier
9. / this region is devoid of charge carriers
10. / it clips both positive and negative cycles of a signal
12. / the barrier potential offers opposition to these carriers in a diode
13. / the capacitance existing in a reverse biased diode
14. / this level lies in the middle of conduction band and valence band in an intrinsic semiconductor
15. / it shifts a signal to a different dc level

Down

1. / this band is nearly empty in a semiconductor
2. / it converts ac voltage to unidirectional voltage
3. / Ge acts like this at zero degree kelvin
4. / the magnitude of reverse saturation current depends on this
7. / it is used as a p-type impurity
8. / an ideal diode offers this resistance when it is reverse biased
11. / the process of connecting a battery across the pn junction